

Title (en)  
INTERFACE BETWEEN LIQUID CHROMATOGRAPHY, IONIZING DEVICE, AND MASS SPECTROMETER, AND SAMPLE ANALYSIS METHOD USING SAME

Title (de)  
SCHNITTSTELLE ZWISCHEN FLÜSSIGKEITSCHROMATOGRAPHIE, IONISIERUNGSVORRICHTUNG UND MASSENSPEKTROMETER SOWIE PROBENANALYSEVERFAHREN DAMIT

Title (fr)  
INTERFACE ENTRE CHROMATOGRAPHIE LIQUIDE, DISPOSITIF D'IONISATION ET SPECTROMÈTRE DE MASSE, ET PROCÉDÉ D'ANALYSE D'ÉCHANTILLON L'UTILISANT

Publication  
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Application  
**EP 22846205 A 20220720**

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Abstract (en)  
An interface between a liquid chromatography (LC), an ionization device, and a mass spectrometer (MS) is provided. A sample containing a target eluted from the liquid chromatography is ionized by the ionization device and the sample is introduced into the mass spectrometer. The interface may include: a droplet sprayer that converts the sample containing the target eluted from the liquid chromatography into sample droplets and sprays the sample droplets; an introduction tube that introduces the target into the mass spectrometer; and an evaporator that is disposed between the droplet sprayer and the introduction tube and evaporates a solvent contained in the sample droplets to generate a gaseous target. The ionization device may ionize the gaseous target introduced into the mass spectrometer through the introduction tube by irradiating the gaseous target in the introduction tube with a beam, the evaporator may include a heatable block in which one or more openings are formed, and the sample droplets sprayed from the droplet sprayer may be generated as the gaseous target while passing through the one or more openings, and the generated gaseous target may flow into the introduction tube.

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